PATENT

Attorney Docket No. 08258.P007C2

NITED STATES PATENT AND TRADEMARK OFFICE

n re Application of:

PERLMAN, STEPHEN G.

Examiner: Mills, Donald L.

Serial No.:

10/618,931

Art Unit:

2616

Filing Date: July 14, 2003

For: SELF-CONFIGURING, ADAPTIVE,

THREE-DIMENSIONAL, WIRELESS

NETWORK

Declaration of Bradley J. Bereznak

Mail Stop Non-Fee Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

- I, Bradley J. Bereznak, declare that:
- 1. All information provided in this declaration is of my own personal knowledge. All of the documents which are attached as exhibits to this declaration were either received by me or prepared by me (including documents received and marked-up by me), and are believed to be true and correct copies. All acts stated and relied upon herein were carried out in the United States of America.
- I prepared and filed the above-referenced patent application (P007C) and its parent patent application no.: 10/367,197 filed February 14, 2003 (P007). The P007C2 application is a continuation application that claims priority under 35 U.S.C. § 120 to the earlier-filed P007 application. As the attorney of record, am submitting this declaration together with the Declaration Under 37 CFR 1.131 of Stephen G.

Perlman (submitted herewith) for the purpose of removing U.S. Patent Publication No. 2004/0125820 of Rios as prior art against the above-referenced P007C2 patent application.

- 3. In late November 2002, Mr. Perlman requested a meeting with me for the purpose of disclosing several new inventions that he conceived for which he wanted to file patent applications. On December 3, 2002, I met with Mr. Perlman at my Mountain View, California office. At that meeting, Mr. Perlman disclosed to me several inventions, one of which he described as a "Self-Configuring, Adaptive, Three-Dimensional, Micro-Cellular Network". Mr. Perlman explained to me that his invention comprised a wireless network that included a chain of wireless access points or wireless repeaters operating in both the 2.4GHz and 5GHz frequency bands. The access points may be configured with two, three, or four transceivers for transmitting and receiving at multiple non-interfering frequencies. Mr. Perlman further disclosed to me that the wireless access points of his invented network were designed to adaptively re-configure their transmitting/receiving characteristics to avoid interference with other competing devices in the same frequency band.
- 4. At our December 3, 2002 meeting Mr. Perlman also presented me with a copy of a document entitled "OnLive™ Proposal for Echostar", dated November 19, 2002, which is attached herewith as Exhibit 1. I read this document and Mr. Perlman discussed its content with me. Afterward, I signed and dated the lower right-hand corner of the first page of this document as "Read & understood". Prior to the conclusion of our meeting, Mr. Perlman said that he would be sending me additional presentation slides in the next few weeks that he was working on which would include drawings to help explain some of the concepts he had just disclosed to me. I informed Mr. Perlman that I would take up his patent application in the order it was received; that is, I had several other patent applications related to wireless networking I was in the process of preparing for Mr. Perlman at that time. These related patent applications included my attorney docket nos. 08258.P001-P004, which were eventually filed concurrently on December 10, 2002 as application nos. 10/315,694, 10/315,624. 10/315,788, and 10/315,460.
- 5. About two weeks later, I received a second set of presentation slides from Mr. Perlman simply entitled "OnLiveTM", dated December 12, 2002, which is attached herewith as Exhibit 2. Shortly thereafter, I received another set of presentation slides from Mr. Perlman which showed detailed operational examples

of his invention for a self-configuring, adaptive, three-dimensional, micro-cellular network. I marked-up these slides with my own handwritten notations – which notations included figure numbers and reference numerals – and sent the entire set of 23 figures via facsimile to Peter Natscher of Technical Graphics on December 30, 2002, requesting that he prepare formal patent drawings from these marked-up figures. A copy of the facsimile transmittal cover sheet and marked-up figures is attached herewith as Exhibit 3. I planned to incorporate these drawings into the patent application for Mr. Perlman's new wireless network, which case was assigned attorney docket no. 08258.P007.

- 6. On January 8, 2003 I mailed a completed draft patent application for P007 to Mr. Perlman along with a second patent application (attorney docket no. 08258.P008) that shared the same specification and drawings, but which included method claims rather than apparatus claims. A copy of the cover letter of that mailing is attached herewith as Exhibit 4. (Note that Mr. Perlman's street address has been redacted from Exhibits 4-6 for privacy reasons.)
- 7. I revised the patent applications for P007 & P008 after receiving Mr. Perlman's comments following his review of the original drafts. During the month of January 2003 I also worked on preparing several other patent applications and responses to Office Actions, which was part of my backlog of cases that I took up in chronological order. For example, one of the cases that I was working on was another patent application for Mr. Perlman, a draft of which was sent to Mr. Perlman on January 22, 2003 (Exhibit 5), and which was later filed on January 29, 2003 (assigned U.S. application no. 10/353,707). I also made revisions to the P008 application during the several weeks following receipt of Mr. Perlman's comments. After I completed my revisions to the P007 patent application I had it hand-delivered to Mr. Perlman on February 12, 2003. A copy of the cover letter for the revised draft is attached herewith as Exhibit 6. After Mr. Perlman notified me that the P007 & P008 applications were acceptable for filing with the U.S. Patent Office, I proceeded to file patent application nos. 10/367,197 (P007) and 10/367,178 (P008) on February 14, 2002.
- 8. I declare that, to the best of my knowledge, all statements made in this document are true, and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements are punishable by fine or imprisonment, or

both, under Section 1001 of Title 18 of	the United St	ates Code and	that such willful
false statements may jeopardize the va	alidity of the al	pove-captione	d application or
any patent issued thereon.			

Date: 3/27 , 2008 Name: Bradley J. Bereznak



Onlive Toposa

for Echostar

Steve Perlman President, Rearden Studios, Inc.

19 November 2002

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Conventional Wisdom

CATV Industry

- Steady cable modem growth
 - VOD slowly rolling out
- Loss of high-end subs to DBS
- ♣ Lowest customer satisfaction in service industry

DBS Industry

- Continued subscriber growth
- Basic DVR slowly rolling out
- No practical Internet connectivity
- No practical MDU deployment



Few Broadband Success Stories

TiVo is on DirecTV, but on life support

Moxi will be on Charter, but team is gone

Microsoft singed its fingers

UltimateTV dead, MSTV a failure

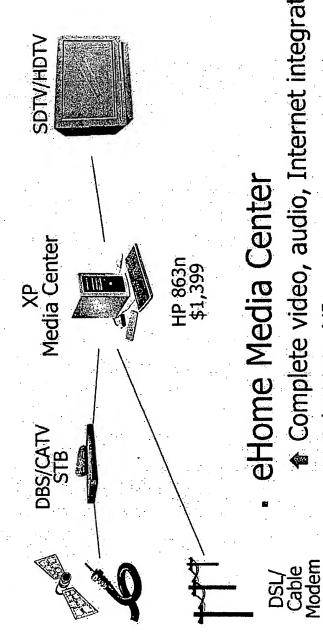
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Diva bankrupt

Pace top management has left

Moto/SA faring poorly

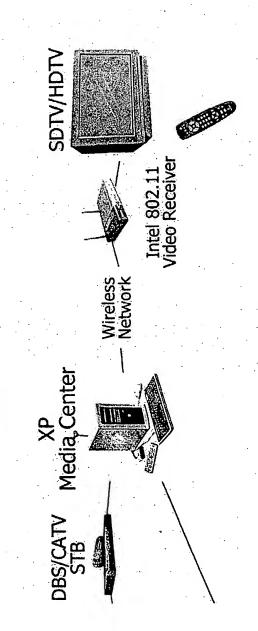
Microsoft filling the vacuum



- Complete video, audio, Internet integration
- Adequate UI
- First version expensive, poor video quality

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Intel Wireless PC Initiative



- Intel Wireless PC Initiative
- Relatively simple installation
- Solves the PC location problem



Why eHome is bad for DBS/CATV

- Marginalizes DBS/CATV within a PC-centric world
- Programming disassociated from operator & network
- Microsoft-defined user interface
- Microsoft added-value content
- No security
- Grabs analog video, which is DRM-free
- Content easily networked to neighbors, uploaded
- Opens door for "Napsterization"
- Direct competition with pirated content
- Pay channels easily re-broadcasted over Internet



Why eHome will happen

- Consumers frustrated with DBS/Cable boxes
- Have not kept pace with PC innovations
- "Cable is 10 years behind, DBS is 5 years behind"
- Difficult to hook up and use
- Nothing on the horizon
- No one will fund MSO-dependent startups after Moxi
- Internet content is readily available
- Legit: Movielink, MusicNet
- Pirate: Kazaa, Morpheus
- Microsoft won't stop
- Infinite investment capacity
- Apple readying own "eHome" solution

Patents Pending

What can you do about it?

Take control of your content while you still can...

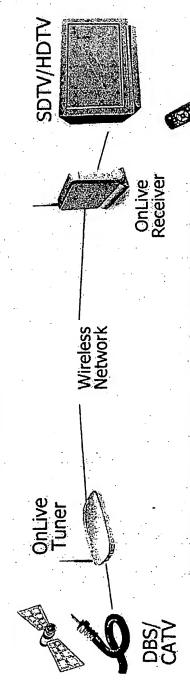
...by shifting PC from a hub to a peripheral.



Wireless renaissance

- The new Internet
- ISM 2.4/5 GHz bands wide-open territory
- Innovation like 90s modem technology
- 8/02: NetGear ships 108 Mbps 802,11a (5 GHz)
- 10/02: DLink ships \$99 wireless repeater (2.4 GHz)
- 11/02: NetGear announces 1Q03 54 Mbps 802.11g (2.4 Gł
- New antennas
- Directional, passive repeaters, phased arrays
- From 300 ft indoors to 3 miles outdoors
- Prices falling like a rock
- 802.11b (2.4 GHz) standard in new portables
- Intel, IBM, AT&T all planning major initiatives

OnLive™ technology



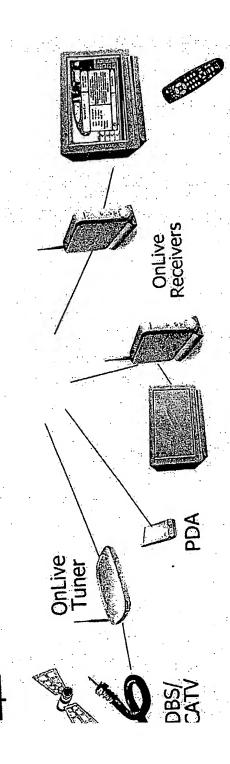
Secure, real-time media streaming

Sophisticated entitlement protocols

- Any device can store, transmit OnLive content
- Only OnLive-enabled devices can play OnLive content
 - Scope of use based on device/user credentials
- Can limit simultaneous viewings, number of viewings, etc. As convenient as unencrypted content

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Presentation control



OnLive content carries presentation layer with it

Content appears as operator wants it to appear

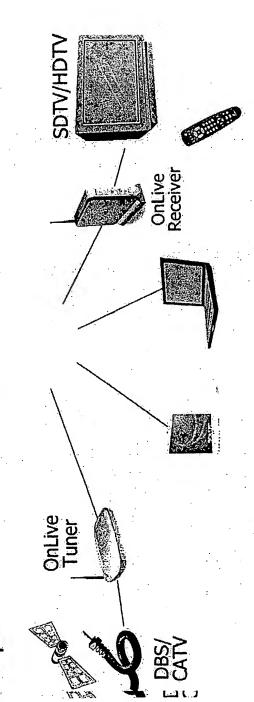
Java, DVD, or Flash-based applets

Device independent

Multiple TVs, PC/Mac, MP3 player, PDA, digital camera

"QuickTime" for wireless

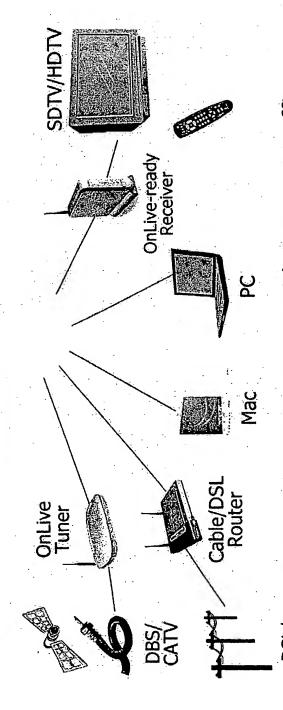
PC/Mac compatibility



- Any PC/Mac can securely play OnLive content
- Auto-detect/auto-driver download/auto-logon
- PC/Mac will observe entitlements (like MovieLink)
- PC/Mac will use attached content presentation
 - Serendipitous viewing supported
- Any users in range of network can utilize OnLive services

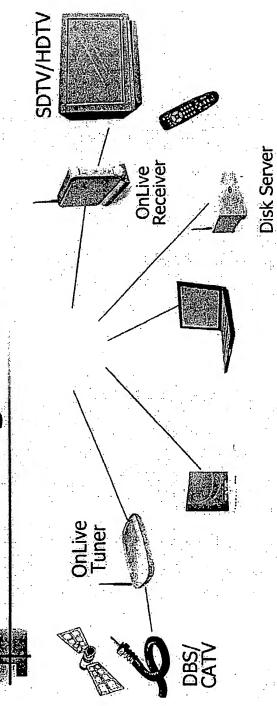
Patents Pending

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Seamlessly co-exists with Internet traffic

- Does not compromise OnLive security
- Still retains user-, and device-level controls
- OnLive auto-discovers Internet connection, utilizes it

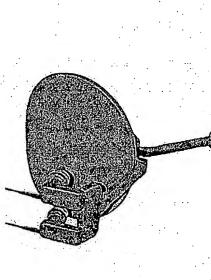


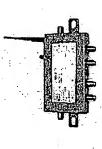
PVR utilizes any disk on network

- Any connected Mac/PC's disk
- Wireless Disk Server (2-disk redundant array)
 - Off-site disks (within Betamax constraints)
- Portables can take content with themSubject to entitlements

Out

On Live outdoors



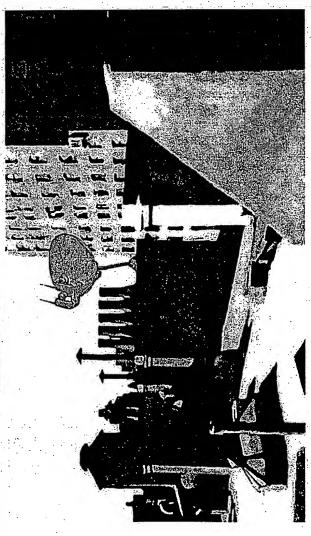


Higher transmit power permitted outdoors

- Can be built into LNBs
- Utilizes LNB power
- Easy upgrade to existing dishes
- Can be built into distribution boxes
- Or splice into coax anywhere

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On Live on rooftops

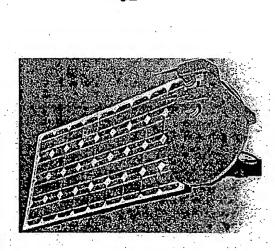


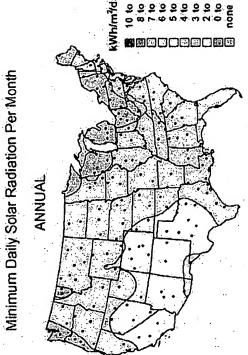
- Serve entire MDUs wirelessly
- Directional antennas can be used if necessary
- Can offer VOD services through Disk Servers Can package DSL connectivity with video



OnLive Free-standing

1960-1990





25-100W panel supports 802.11 repeater 24x7

- Based on 30 years of solar radiation data
- Would require low-power LNB for Sat reception
- One dish can serve a large area
- Network nodes self-diagnosing

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Patents Pending

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Why not an open standard?

- User experience critical for success
- 802.11 standards not user-friendly or CE-ready
- Real-time, installation, maintenance considerations
- Subject to industry-wide consensus
- PC, CE, Content industries have own agendas
- Slow, political process
- Not amenable to artistic/user experience issues
 - Microsoft/Intel can deliberately slow it down
 - Better than nothing
- I'll probably pursue it if can't motivate DBS or Cable
- Patents give me some "do the right thing" leverage



What it will take

Commitments

- Echostar or Comcast needs to endorse
- DirecTV if News picks them up
- 1 major CE (Thomson already on board)
 - Primary funding needed from partners
- Deployment commitment needed
- Needs to support a reasonable business model

■ Team

- 20-50 people, depending on scope of work
- Top talent available cheap



Steve Perlman President, Rearden Studios, Inc.

12 December 2002



Conventional Wisdom

CE Industry

- Growth in wide-screen sets, DVD players
- Digital cameras eclipsing film
- PC absorbing more CE applications
- ◆ Weak or negative margins
- ◆ ATSC doesn't work in practice
- Locked out of digital CATV, Echostar
- Locked out of video games



Conventional Wisdom

CATV Industry

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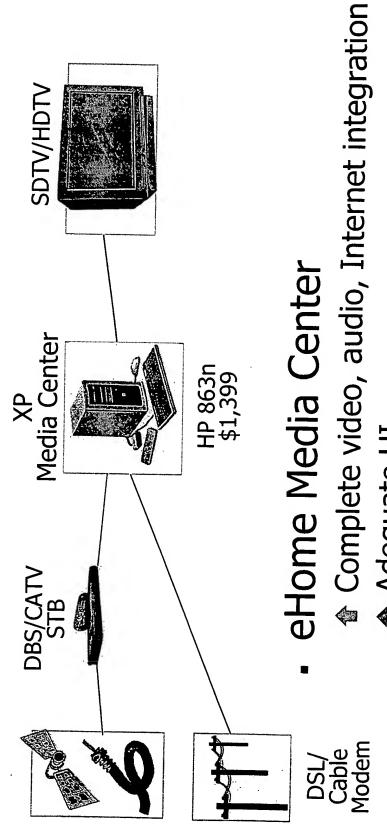


Few Broadband Success Stories

- TiVo is on DirecTV, but on life support
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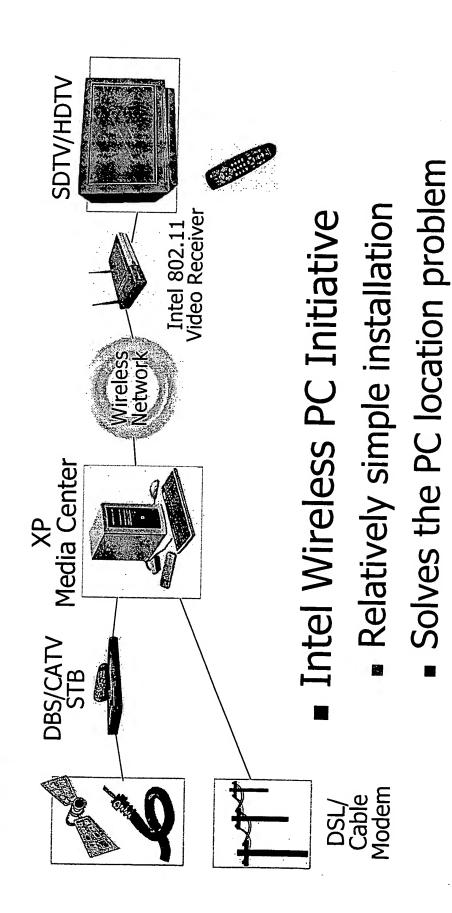


Microsoft filling the vacuum

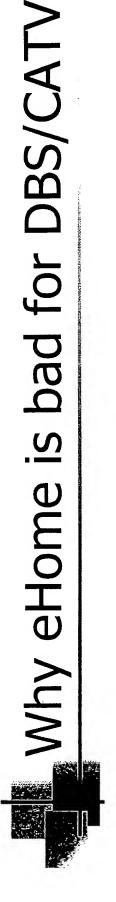


- Adequate UI
- First version expensive, poor video quality

Intel Wireless PC Initiative



- Cuts CE devices out of the picture
- No margin for anyone but Microsoft



- Marginalizes DBS/CATV within a PC-centric world
- Programming disassociated from operator & network
- Microsoft-defined user interface
- Microsoft added-value content
- No security
- Grabs analog video, which is DRM-free
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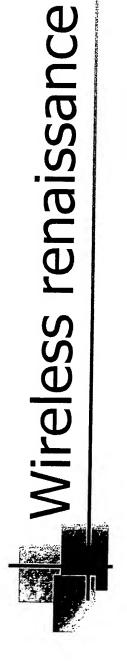


- Consumers frustrated with DBS/Cable boxes
- Have not kept pace with PC innovations
- "Cable is 10 years behind, DBS is 5 years behind"
- Difficult to hook up and use
- Nothing on the horizon
- No one will fund MSO-dependent startups after Moxi
- Internet content is readily available
- Legit: Movielink, MusicNet
- Pirate: Kazaa, Morpheus
- Microsoft won't stop
- Infinite investment capacity
- Apple readying own "eHome" solution



Establish an advanced CE interconnect standard while you still can...

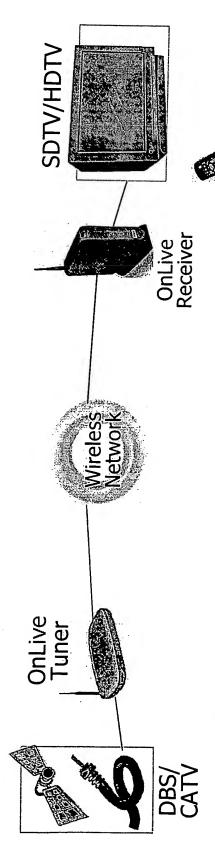
..and shift the PC from a hub to a peripheral.



- The new Internet
- ISM 2.4/5.8 GHz bands wide-open territory
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- 802.11b (2.4 GHz) standard in new portables
- Intel, IBM, AT&T supporting nationwide coverage



OnLive™ technology

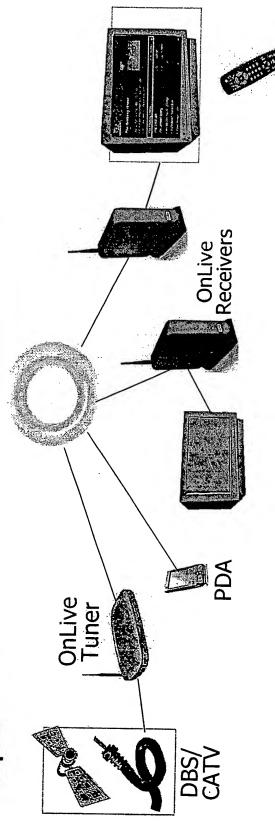


Secure, real-time media streaming



- Any device can store, transmit OnLive content
- Only OnLive-enabled devices can play OnLive content
 - Scope of use based on device/user credentials
- Can limit simultaneous viewings, number of viewings, etc.
 - Self-configuring microcellular network

Presentation control



OnLive content carries presentation layer with it

Operator and/or CE-branded

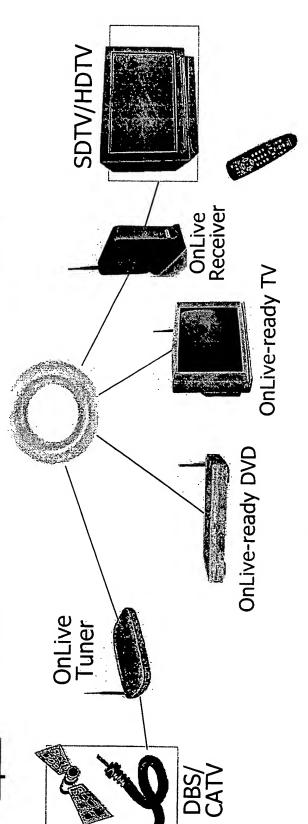
Java, DVD, or Flash-based applets

Device independent

Multiple TVs, PC/Mac, MP3 player, PDA, digital camera

"QuickTime" for wireless

CE Device compatibility

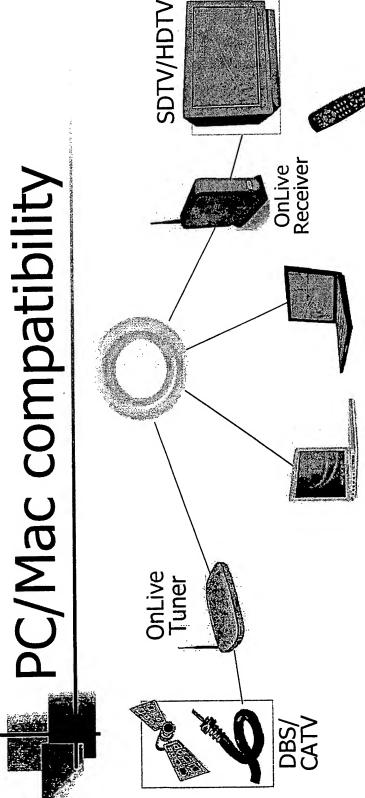


- Easy to equip CE devices with OnLive
- Built-in, PC-card, or Firewire dongle
 - Eliminates cables
- Auto-configures
- Allows devices to have personality, added value
 - Finally, something better than Video 1, Video 2, etc.

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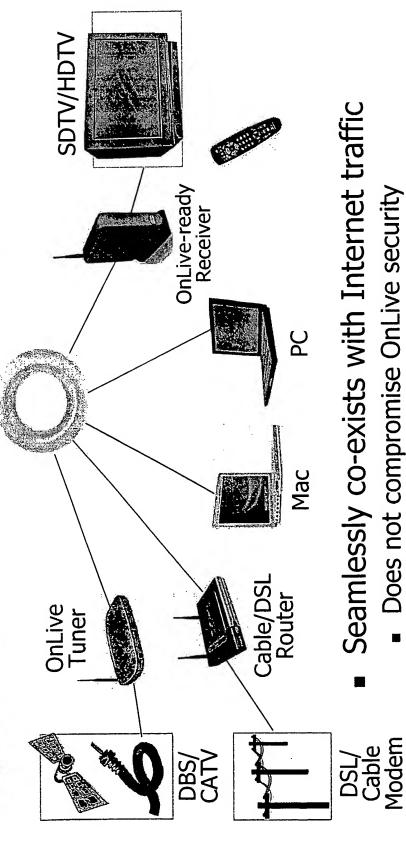
Patents Pending





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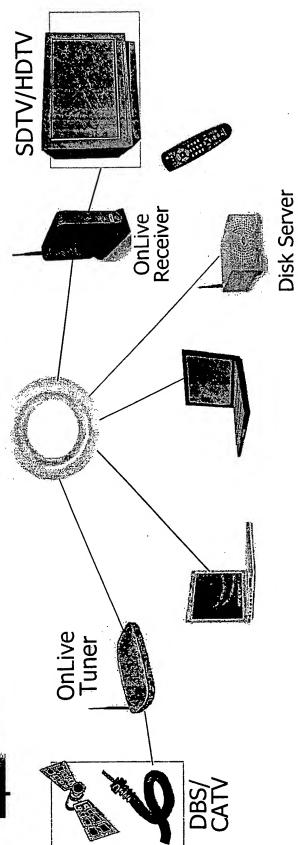
Internet integration



- Does not compromise OnLive security
- Still retains user-, and device-level controls
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Disk integration

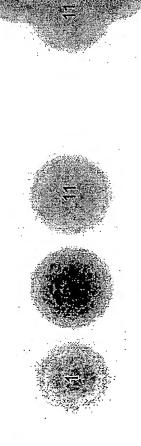


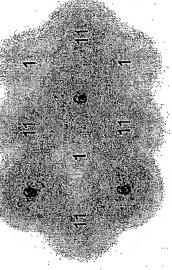
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Wireless coverage



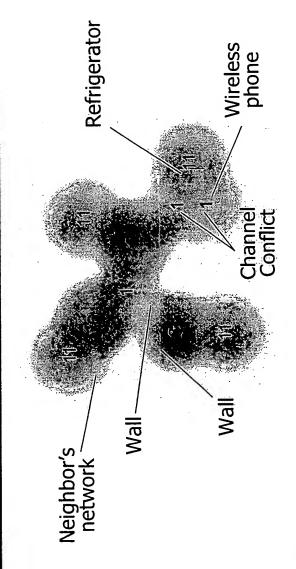


2.4 GHz non-overlapping channels

Idealized cellular topology

- Repeaters needed for media bandwidths
- Single access point unlikely to serve entire home
 - No one will run Cat 6 between APs
- Repeaters require non-overlapping channels
- 2.4 GHz has 3 channels, 5.8 GHz has 8 channels
- Cellular topology can provide full-home coverage...
- ...in an ideal world

Real world issues



RF obstacle courses

- Walls, large appliances, concrete
- Multiple stories
- Suboptimal repeater placement

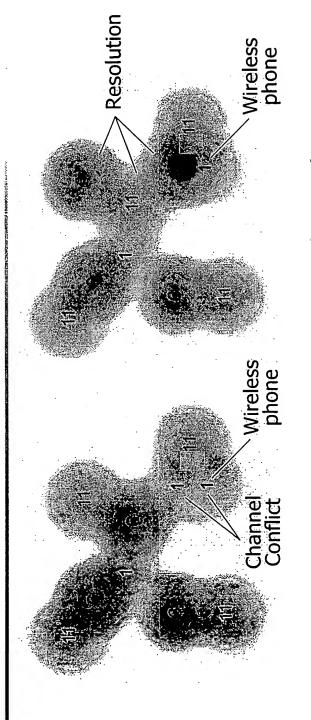
External interference

- Wireless phones, x10 cameras
- Neighbor's networks

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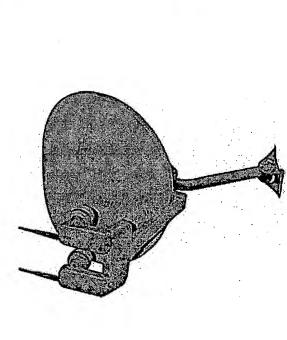
OnLive adapts to real world

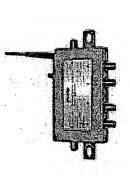


- OnLive creates, maintains optimal topology
- Self-configures no matter where repeaters plugged in
- Conforms around non-OnLive devices
- Adapts as the environment changes
- Creates a media-live household
- Opens the door to a world of products and services

Patents Pending

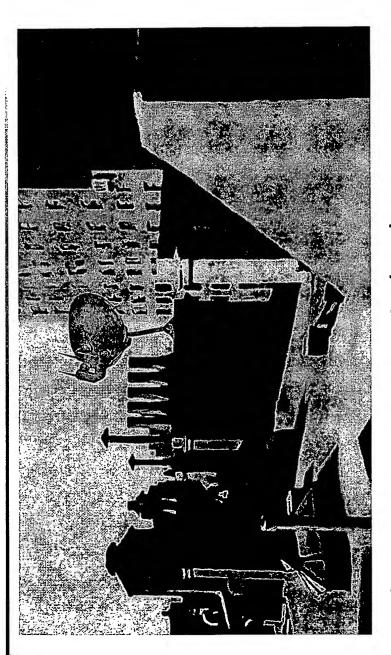
On Live outdoors





- Higher transmit power permitted outdoors
- . Can be built into LNBs
- Utilizes LNB power
- Easy upgrade to existing dishes
- Can be built into distribution boxes
- Or splice into coax anywhere

OnLive on rooftops

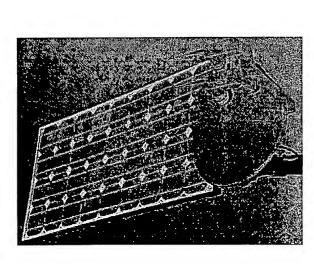


- Serve entire MDUs wirelessly
- Directional antennas can be used if necessary
- Can offer VOD services through Disk Servers
- Can package DSL connectivity with video

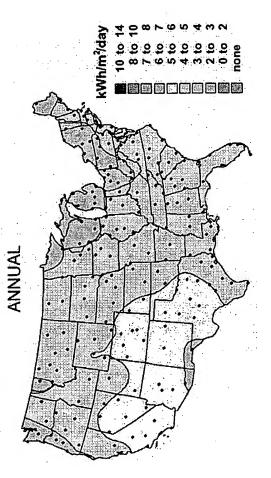
Patents Pending



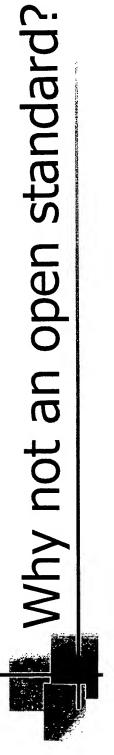
OnLive Free-standing



Minimum Daily Solar Radiation Per Month 1960-1990



- 25-100W panel supports 802.11 repeater 24x7
- Based on 30 years of solar radiation data
- Would require low-power LNB for Sat reception
- One dish can serve a large area
- Network nodes self-diagnosing



- User experience critical for success
- 802.11 standards not user-friendly or CE-ready
- Real-time, installation, maintenance considerations
- Subject to industry-wide consensus
- PC, CE, Content industries have own agendas
- Slow, political process
- Not amenable to artistic/user experience issues
- Microsoft/Intel can deliberately slow it down

Better than nothing

- I'll probably pursue it if can't motivate DBS or Cable
- Patents give me some "do the right thing" leverage

25



Commitments

- Echostar or Comcast needs to endorse
- DirecTV if News picks them up
- 2 major CEs
- Primary funding needed from partners
- Deployment commitment needed
- Needs to support a reasonable business model

. Team

- 20-50 people, depending on scope of work
- Top talent available cheap



Appendix:

Game Platform

Steve Perlman President, Rearden Studios, Inc.

12 December 2002

Why PC platforms matter

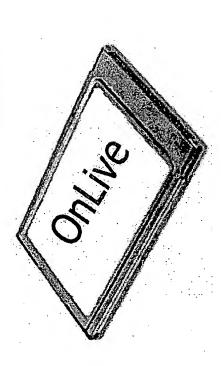
- Standard API
- Standard UI
- Rich set of tools
- Developer support services
- User support services
- Marketing dollars
- Specialized hardware



- Cross-platform game engines
- Game-specific UI
- Proprietary tools
- Primary developer issues are internal
- Direct customer service relationship
- SW brand as strong as platform brand
- Specialized hardware available from 3rd parties

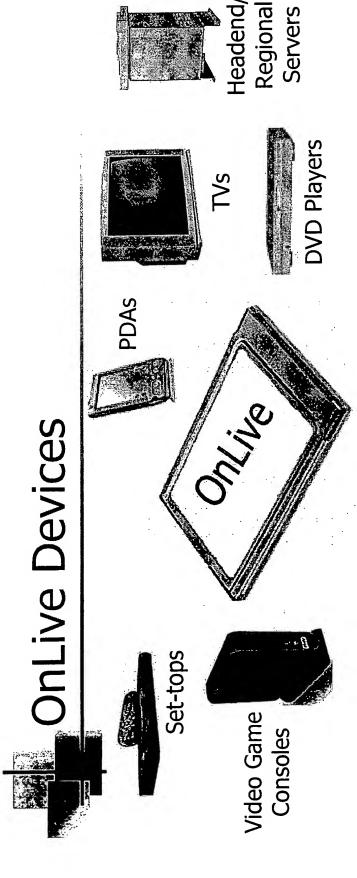


The OnLive Game Platform



- Specialized game hardware on a Cardbus card
- Graphics/sound engine, SDRAM, CPU, and security
- Plugs into a range of CE devices
- Utilizes RAM, IR receiver, mass storage/network connection
- Controlled by game developer industry
- Secure
- Untaxed

Patents Pending



Extends video game platform reach

Servers

- Makes video games a type of media, rather than an application
- Converging into the motion picture business
- Better economics
- Eliminates redundant electronics
- Defies obsolescence
- Just slip in new card

Commitments

- EA and 2 or 3 other major developers
- 2 major CEs
- Primary funding needed from partners
- Deployment commitment needed
- Needs to support a reasonable business model

Team

- 20-30 people, depending on scope of work
- Top talent available cheap

BURGESS

&

800 EL CAMINO REAL, SUITE 180

MOUNTAIN VIEW, CALIFORNIA 94040

BEREZNAK A LIMITED LIABILITY PARTNERSHIP

(650) 903-2264 (Phone); (650) 903-2280 (Fax)

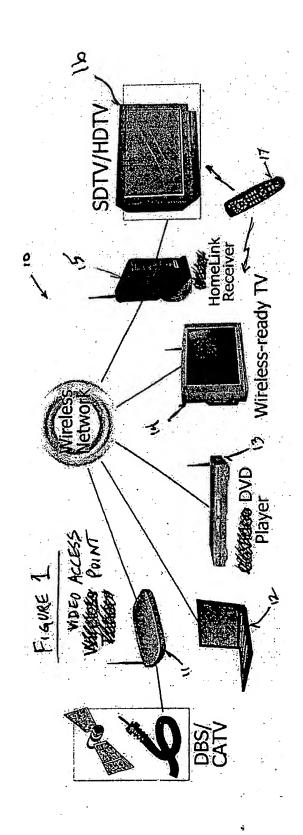
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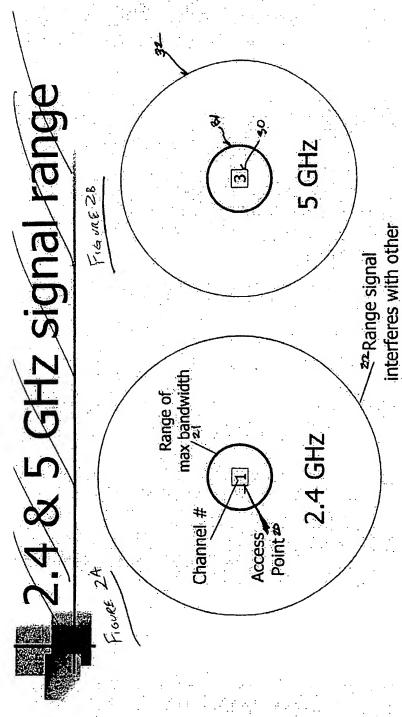
Deliver to:	Peter Natscher
irm Name:	TECHNICAL GRAPHICS
ax Number:	(877) 654-6801 Telephone No.: (877)654-6811
	d Bereznak
Date: Dece	ember 30, 2002 Time: 1:00 p.m.
Operator:	bjb Matter: 08258.P007
	Your Reference:
Number of pag	ges including cover sheet:19
Hi Peter,	
Attached is a :	set of Figures for the above case. As usual, please send the form
	tronically in .pdf format. Let me know if you have any questions.
Thanks, and I	wish you a happy and prosperous 2003.

CONFIDENTIALITY NOTICE

The documents accompanying this facsimile transmission contain information from the law-firm of Burgess & Bereznak LLP that is confidential or privileged. The information is intended to be for the use of the individual or entity named on this transmission sheet. If you are not, the intended recipient, be aware that any disclosure, copying, distribution, or use of the contents of this faxed information is prohibited. If you have received this facsimile in error, please notify us by telephone immediately so that we can arrange for the retrieval of the original documents at no cost to you:

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2.4 & 5 GHz have similar max bandwidth range

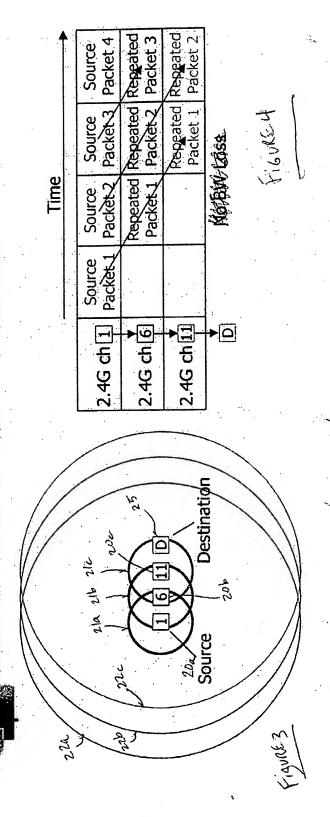
signals

5 GHz has shorter potential signal interference range

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Patents Pending





Each hop uses a different channel

Repeated packets overlap in time

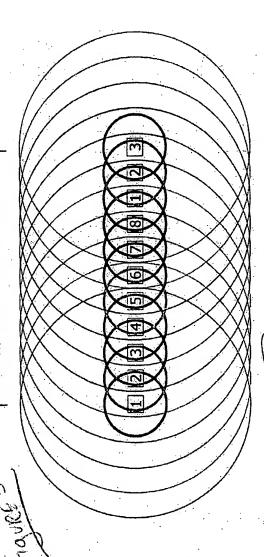
Packets/are pipelined across charnels

No loss of bandwidth

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10 hops: 500' at full bandwidth

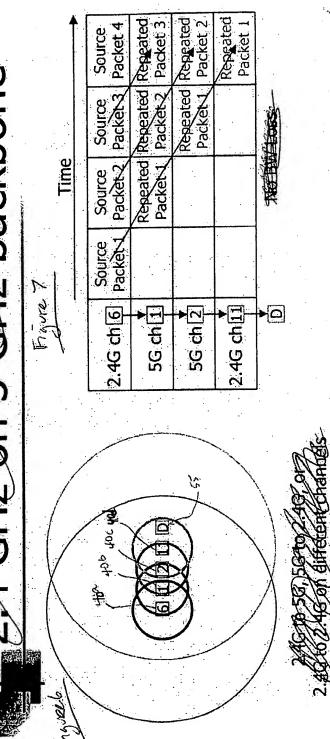


- With 12 channels, hops can extend indefinitely
- Especially true given fow power needed for short hops Repeaters extend far enough for channel reuse.
- Works in all 3 dimensions,

Range unlimited from source to destination

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5 GHz OnLive repeaters form arbitrary length backbone for 2.4 GHz traffic

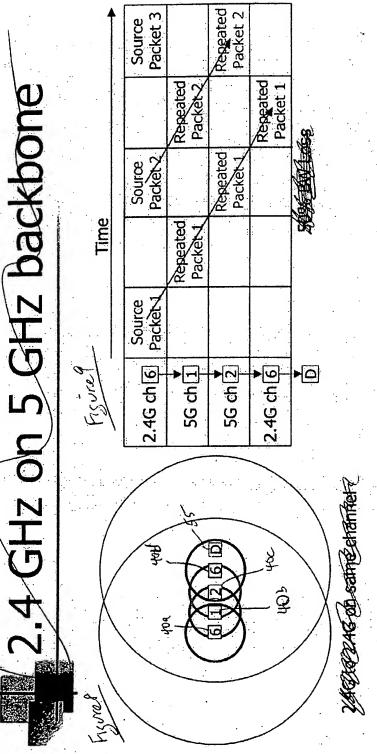
Usual situation if high BW source is an OnLive video tuner No/constraints if 5 GHz device is either source or dest

If both source and dest are 2.4G, source/dest must be different channels

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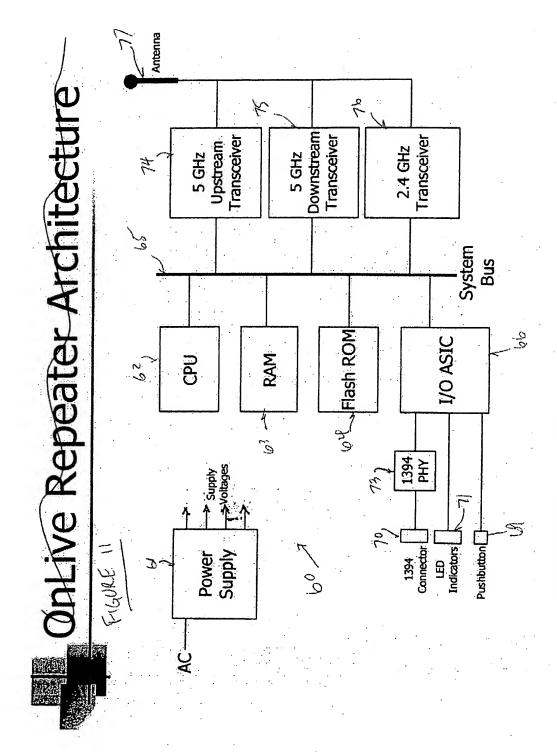


If source/dest on same 2.4¢ channel, penalty of \$0% BW loss

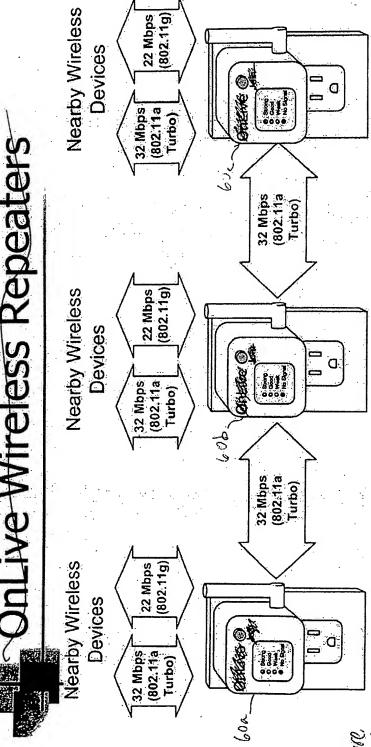
Onlive still extends 2.4G network to arbitrary length No additional BW loss no matter what the distance

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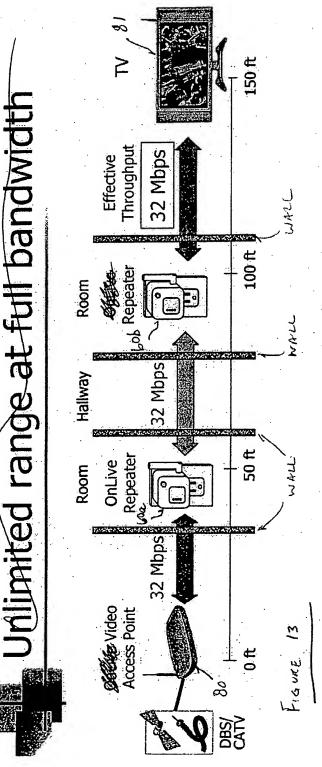


Installing a new Onlive repeater is simple:

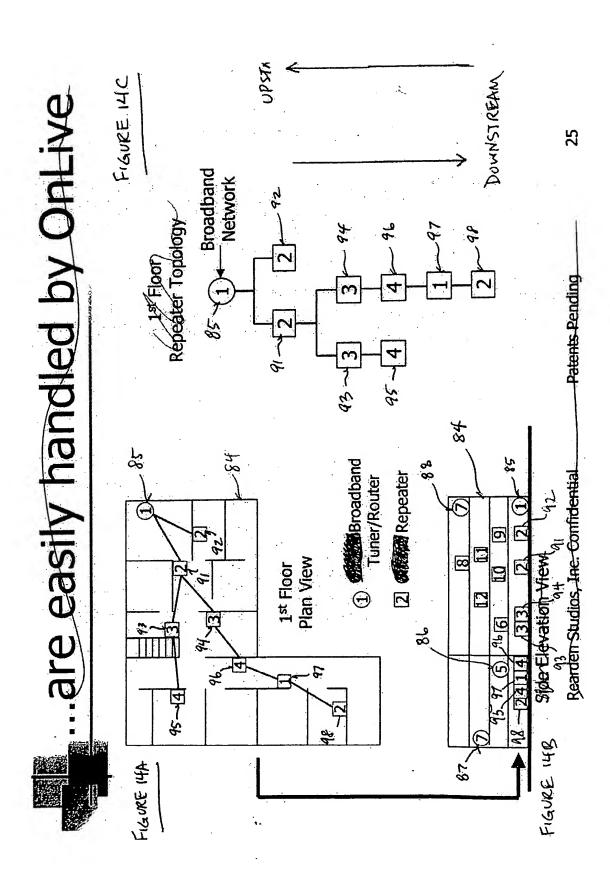
Connect new Onlive repeater to existing repeater with Firewire cable Press "Join" on existing repeater and new repeater. Disconnect capte

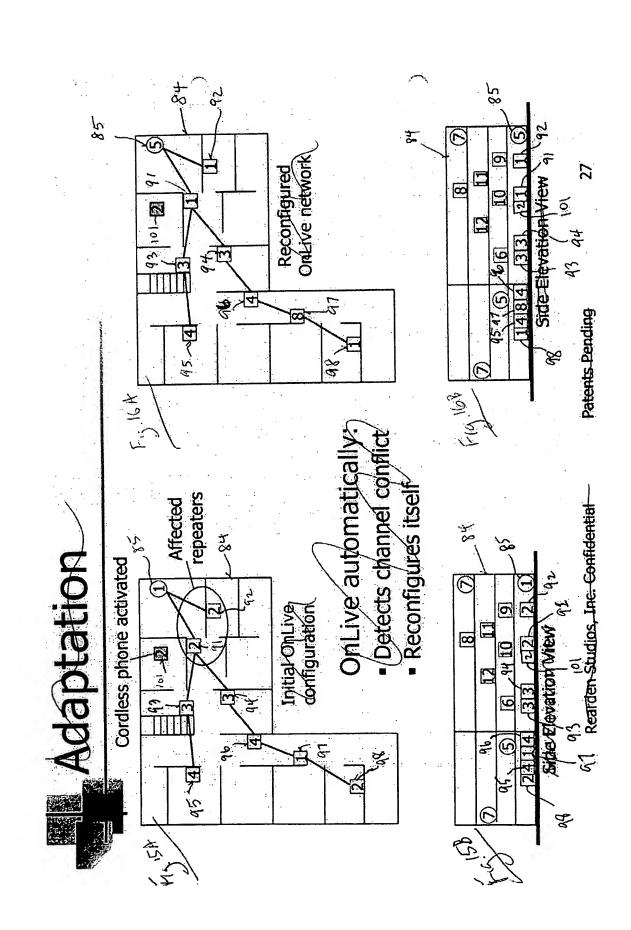
find an AC outlet where the signal reads "Strong". That's iti

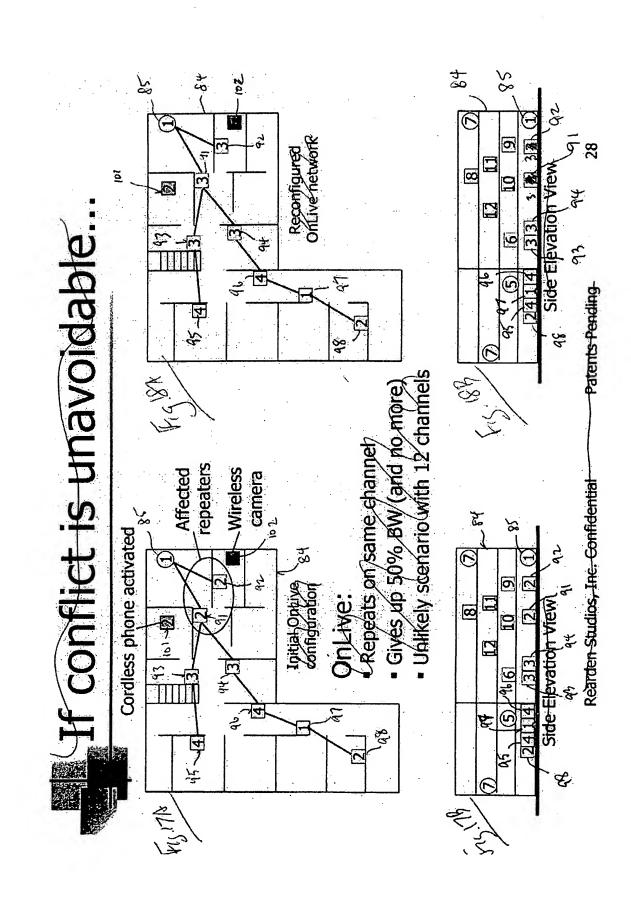
Inlimited range at full bandwin



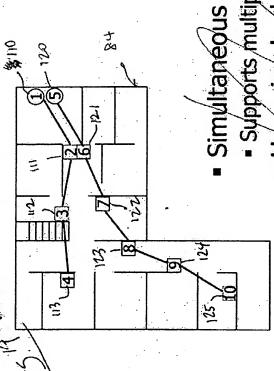
- 23-42 Mbps backbone throughput, depending on channel availability and protocol used
 - 5 GHz local throughput same as backbone
- 2.4 GHz local throughput limited to 22 Mbps with 802.11g







Simultaneous network



Simultaneous networks increases BW

Supports multiple HDTV streams

User simply doubles up router and repeaters

Only requirement is channel availability

FCC is likely to provide more 5 GHz channels



Office Tuner













Any devige can store, transmit OnLive content Sophisticated entitlement protocols Secure, real-time, media streaming

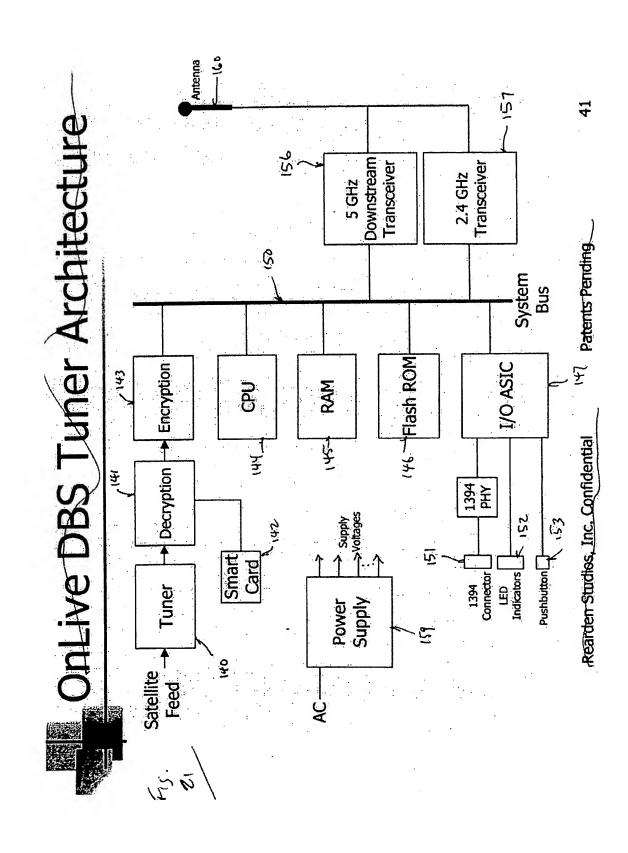
Only OnLive-enabled devices can play OnLive content Scope of use based on device/user credentials

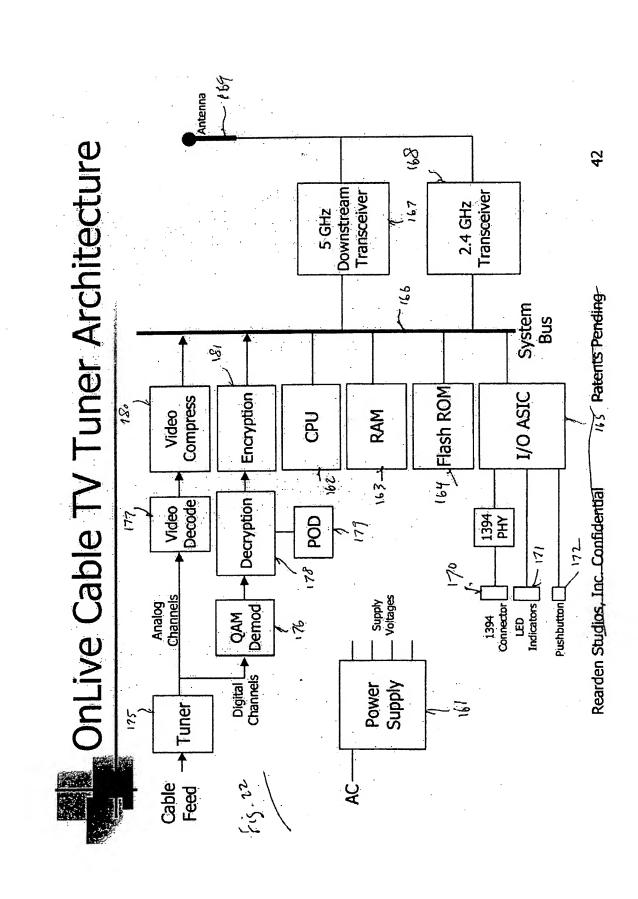
Can limit simultaneous viewings, number of viewings, etc

Self-configuring, adaptive, 3D/microcellular network Resolves reliability and interference issues with wireless

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Patents Pending





System Bus

Flash ROM

43

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ATTORNEYS AT LAW

January 8, 2003

Steve Perlman, President & CEO REARDEN STUDIOS, INC.

Confidential Attorney-Client Privileged

Palo Alto, CA 94301

Re: U.S. Patent Application For:

SELF-CONFIGURING, ADAPTIVE, THREE-DIMENSIONAL,

MICRO-CELLULAR WIRELESS NETWORK

Our Ref. No.: 08258.P007

U.S. Patent Application For:

METHOD OF OPERATION FOR A THREE-DIMENSIONAL,

MICRO-CELLULAR WIRELESS NETWORK

Our Ref. No.: 08258.P008

Dear Steve:

Enclosed are draft patent applications for each of the above-identified cases. Also enclosed is a set of drawings with figures applicable to each application. As you can see, both applications share a common specification. Also enclosed are declaration documents for each application.

Please review all documents. If you find the applications are in condition for filing with the PTO, please execute the declaration documents where indicated, then return all documents to our office. If any changes/markings are made on any of the enclosed documents, please initial every change where made. Once we receive the executed documents, and any changes to the application papers, we will proceed with filing the patent applications in the United States Patent and Trademark Office.

Steve Perlman Rearden Studios, Inc. January 8, 2003 Page 2

Please be reminded that until each patent issues (often at least two years), you have a continuing duty to disclose to the Patent and Trademark Office information you are aware of that is material to the examination of the patent application. Such information is material when there is a substantial likelihood that a reasonable patent examiner would consider it important in deciding to allow the application to issue as a patent. For example, if you are aware of any articles or products bearing on your invention, please bring them to our attention.

It is our understanding that each invention has not been patented or described in printed publication in this, or a foreign country, or in public use or on sale in this country more than one year prior to the date that we intend to file the application. Please let us know as soon as possible if you believe otherwise.

In reviewing each application, keep in mind that you must disclose your preferred way of carrying out the invention. For instance, if there are special functions or circuits that you prefer, they must be set forth in the application.

If you have any questions, please do not hesitate to contact us. We look forward to hearing from you soon.

Very truly yours,

BURGESS & BEREZNAK, LLP

Bradley J. Bereznak

crb Enclosures

BURGESS & BEREZNAK, LLP

ATTORNEYS AT LAW

January 22, 2003

Steve Perlman, President & CEO REARDEN STUDIOS, INC.

Palo Alto, CA 94301

Confidential Attorney-Client Privileged

Re:

U.S. Patent Application For:

APPARATUS AND METHOD FOR REFLECTIVE

DISPLAY OF IMAGES ON A CARD Our Ref. No.: 08258.P005

Dear Steve:

Enclosed is a draft patent application for the above-identified case. Also enclosed is a set of informal drawings with figures applicable to the application. I have also enclosed a declaration for the application.

Please review all documents. If you find the applications are in condition for filing with the Patent Office, please execute the declaration document where indicated, then return it to our office. If any changes/markings are made on any of the enclosed documents, please initial every change where made. Once we receive the executed documents, and any changes to the application papers, we will proceed with filing the patent applications in the United States Patent and Trademark Office.

Please be reminded that until a patent issues (often at least two years), you have a continuing duty to disclose to the Patent and Trademark Office information you are aware of that is material to the examination of the patent application. Such information is material when there is a substantial likelihood that a reasonable patent examiner would consider it important in deciding to allow the application to issue as a patent. For example, if you are aware of any articles or products bearing on your invention, please bring them to our attention.

Steve Perlman Rearden Studios, Inc. January 22, 2003 Page 2

It is our understanding that each invention has not been patented or described in printed publication in this, or a foreign country, or in public use or on sale in this country more than one year prior to the date that we intend to file the application. Please let us know as soon as possible if you believe otherwise.

In reviewing each application, keep in mind that you must disclose your preferred way of carrying out the invention. For instance, if there are special functions or circuits that you prefer, they must be set forth in the application.

If you have any questions, please do not hesitate to contact us. We look forward thearing from you soon.

Very truly yours,

BURGESS & BEREZNAK, LLP

Bradley J. Bereznak

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Enclosures

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ATTORNEYS AT LAW

February 12, 2003

Steve Perlman, President & CEO REARDEN STUDIOS, INC.

Hand-Delivered Confidential Attorney-Client Privileged

Palo Alto, CA 94301

Re:

U.S. Patent Application For:

SELF-CONFIGURING, ADAPTIVE, THREE-DIMENSIONAL,

MICRO-CELLULAR WIRELESS NETWORK

Our Ref. No.: 08258.P007

Dear Steve:

Enclosed is a revised draft patent application for the above-identified case. Also enclosed is a set of drawings with figures applicable to the application. Please review these documents prior to our meeting tomorrow.

Please be reminded that until the patent issues (often at least two years), you have a continuing duty to disclose to the Patent and Trademark Office information you are aware of that is material to the examination of the patent application. Such information is material when there is a substantial likelihood that a reasonable patent examiner would consider it important in deciding to allow the application to issue as a patent. For example, if you are aware of any articles or products bearing on your invention, please bring them to our attention.

It is our understanding that your invention has not been patented or described in printed publication in this, or a foreign country, or in public use or on sale in this country, more than one year prior to the date that we intend to file the application. Please let me know as soon as possible if you believe otherwise.

In reviewing the application, keep in mind that you must disclose your preferred way of carrying out the invention. For instance, if there are special functions or circuits you prefer, they must be set forth in the application.

Steve Perlmar Rearden Studios, Inc February 12, 2003 Page 2

If you have any questions, please do not hesitate to contact me. I look forward to our meeting tomorrow.

Very truly yours,

BURGESS & BEREZNAK, LLP

Bradley J. Bereznak

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